

Claims

[c1] **I Claim**

A cursor control device comprising:
a motion detector, which can be pressed against a surface;
an optical sensor array; and
a light source;
wherein said light source is located remotely from said motion detector.

[c2] The cursor control device of Claim 1 wherein:
said optical detector array is located remotely from said motion detector.

[c3] The cursor control device of Claim 1 further comprising:
a stylus.

[c4] The cursor control device of Claim 3 further comprising:
a mouse body.

[c5] The cursor control device of Claim 4 wherein:
said motion detector is mounted on said stylus;
said stylus is mounted in said mouse body; and
said stylus is extendable from said mouse body.

- [c6] The cursor control device of claim 5 wherein said stylus extends from said mouse body when said mouse body is rotated.
- [c7] The cursor control device of Claim 1 further comprising: a means for mounting said motion detector on a user's finger.
- [c8] The cursor control device of Claim 1 wherein: said light source is ambient light.
- [c9] A cursor control device comprising:
 - an optical sensor array;
 - a light source; and
 - an optical fiber.
- [c10] The cursor control device of claim 9 further comprising: a plurality of motion detectors.
- [c11] The cursor control device of Claim 9 further comprising: a glove having a plurality of finger coverings.
- [c12] The cursor control device of Claim 11 further comprising:
 - a plurality of switches mounted in said finger coverings.
- [c13] A method of determining a position associated with an object placed over a viewing surface of a monitor comprising the step of:

detecting a time ordered signal, which is traversing the viewing surface of the monitor; and determining the position of said object based upon when said time ordered signal was detected.

- [c14] The method of claim 13 further comprising the step of: positioning a pointer in the vicinity of said position.
- [c15] The method of claim 13 further comprising the step of: inserting said time ordered signal onto the viewing surface of said monitor.
- [c16] A device for determining the position of an object on the viewing surface of a monitor comprising:
 - an optical sensor;
 - a horizontal timer; and
 - a vertical timer.
- [c17] A device for detecting a position associated with an object placed in the vicinity of a monitor comprising:
 - a means for detecting a time ordered light signal.
- [c18] The device of claim 17 further comprising:
 - a means for detecting motion across a surface.